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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/875,458 06/05/2001		Craig F. Culver	IMM059A	6909	
34300 7590 06/28/2006		EXAMINER			
PATENT DEPARTMENT (51851)				WU, XIAO MIN	
KILPATRICK STOCKTON LLP 1001 WEST FOURTH STREET WINSTON-SALEM, NC 27101				ART UNIT	PAPER NUMBER
				2629	

DATE MAILED: 06/28/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati n N .	Applicant(s)			
Office Action Summary		09/875,458	CULVER, CRAIG F.			
		Examiner	Art Unit			
		XIAO M. WU	2629			
Period fo	The MAILING DATE of this communication app r Reply	ears on the cover sheet with the c	orrespondence address			
WHIC - Exter after - If NO - Failu Any r	CORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAISIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONED	Lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on <u>05 Ap</u>	oril 2006.				
2a)⊠	This action is FINAL . 2b) ☐ This	action is non-final.				
3)[Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits is			
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.			
Dispositi	on of Claims					
4) ⊠ Claim(s) 23-34,58-71 and 74-79 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 23-34,58-71 and 74-79 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers					
10) 🗆	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
	e of References Cited (PTO-892)	4) Interview Summary				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Paper No(s)/Mail Date Paper No(s)/Mail Date						

Application/Control Number: 09/875,458 Page 2

Art Unit: 2629

DETAILED ACTION

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 23-34, 58-71 and 74-79 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-28 of U.S. Patent No. 6,256,011.

Although the conflicting claims are not identical, they are not patentably distinct from each other because they are similar and not patentably distinct from each other. The following side-by-side comparison table is comparing the representative claim 17 of the U.S. Patent No. 6,256,011 and the representative claim 23 of the instant application.

US Patent No. 6,256,011	Instant application
17. A force feedback control in communication	23. An apparatus comprising:
with a host computer implementing a graphical	
environment, the force feedback control device	

Application/Control Number: 09/875,458

Art Unit: 2629

comprising:	
a housing;	a manipulandum movable in at least two rotary
An arm rotatably coupled to said housing and	degrees of freedom, wherein said at least two
operative to move with respect to said housing	rotary degrees of freedom comprise a first and
in a first rotary degree of freedom;	a second rotary degree of freedom, wherein an
	axis of rotation of said first rotary degree of
	freedom is substantially perpendicular to an
	axis of rotation of said second rotary degree of
	freedom;
a first sensor coupled to said arm and operative	a sensor operable to detect a position of said
to sense said movement of said arm, said first	manipulandum and a deviation of said
sensor outputting a first control signal;	manipulandum from said position and to
	output a first sensor signal associated with said
	deviation of said manipulandum from said
	position;
a first actuator coupled to said arm and	a first actuator operable to provide tactile
operative to output a first force to said arm,	feedback to said manipulandum in a first of
said in said first rotary degree of freedom, said	said at least two degrees of freedom, the tactile
first actuator being controlled by a first	feedback associated with said first sensor
actuator signal;	signal;
a roller rotably coupled to said arm and	
operative to rotate with respect to said arm in a	

Application/Control Number: 09/875,458 Page 4

Art Unit: 2629

second rotary degree of freedom;	
a second sensor coupled to said roller and	
operative to sense said rotation of said roller,	
said second sensor outputting a second control	
signal; and	
a second actuator coupled to said roller ad	a second actuator operable to provide tactile
operative to output a second force to said roller	feedback to said manipulandum in a second of
in said second rotary degree of freedom, said	said at least two degrees of freedom, the tactile
second actuator being controlled by a second	feedback associated with said first sensor
actuator signal.	signal; and
	a first processor operable to control said first
	actuator and said second actuator and to
	receive said first sensor signal from said
	sensor.

From the comparison above, claim 23 of the instant application is broadening from claim 17 of the US Patent No. 6,256,011 since claim 23 only requires one sensor for sensing the position of the manipulandum. It would have been obvious to combined two sensing devices into a single sensing unit so as to have a more compact design.

Response to Arguments

3. Applicant's arguments with respect to claims 23-34, 58-71 and 74-79 have been considered but are moot in view of the new ground(s) of rejection.

Application/Control Number: 09/875,458 Page 5

Art Unit: 2629

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to XIAO M. WU whose telephone number is 571-272-7761. The examiner can normally be reached on 6:30 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RICHARD HJERPE, can be reached on 571-272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

Art Unit: 2629

applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

x.w.

June 24, 2006

XIAO M. WU

Primary Examiner Art Unit 2629